Clemens Lowik

List of Publications by Year
in descending order

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51 papers	3,297 citations	186265 28 h-index	197818 49 g-index
51 all docs	51 docs citations	51 times ranked	3868 citing authors

#	Article	IF	Citations
1	Red-shifted click beetle luciferase mutant expands the multicolor bioluminescent palette for deep tissue imaging. IScience, 2021, 24, 101986.	4.1	29
2	Development of a New Hyaluronic Acid Based Redox-Responsive Nanohydrogel for the Encapsulation of Oncolytic Viruses for Cancer Immunotherapy. Nanomaterials, 2021, 11, 144.	4.1	23
3	Evaluation of NanoLuc substrates for bioluminescence imaging of transferred cells in mice. Journal of Photochemistry and Photobiology B: Biology, 2021, 216, 112128.	3.8	23
4	Fluorinated PLGA-PEG-Mannose Nanoparticles for Tumor-Associated Macrophage Detection by Optical Imaging and MRI. Frontiers in Medicine, 2021, 8, 712367.	2.6	10
5	Evaluating Brightness and Spectral Properties of Click Beetle and Firefly Luciferases Using Luciferin Analogues: Identification of Preferred Pairings of Luciferase and Substrate for In Vivo Bioluminescence Imaging. Molecular Imaging and Biology, 2020, 22, 1523-1531.	2.6	21
6	NanoBiT System and Hydrofurimazine for Optimized Detection of Viral Infection in Miceâ€"A Novel in Vivo Imaging Platform. International Journal of Molecular Sciences, 2020, 21, 5863.	4.1	10
7	Click beetle luciferase mutant and near infrared naphthyl-luciferins for improved bioluminescence imaging. Nature Communications, 2018, 9, 132.	12.8	101
8	A Dual-Color Bioluminescence Reporter Mouse for Simultaneous in vivo Imaging of T Cell Localization and Function. Frontiers in Immunology, 2018, 9, 3097.	4.8	32
9	Optimized Longitudinal Monitoring of Stem Cell Grafts in Mouse Brain Using a Novel Bioluminescent/Near Infrared Fluorescent Fusion Reporter. Cell Transplantation, 2017, 26, 1878-1889.	2.5	11
10	Targeting Nanomedicine to Brain Tumors: Latest Progress and Achievements. Current Pharmaceutical Design, 2017, 23, 1953-1962.	1.9	8
11	Optimized longitudinal monitoring of stem cell grafts in mouse brain using a novel bioluminescent/near infrared fluorescent fusion reporter. Cell Transplantation, 2017, , .	2.5	0
12	Fate of Multimeric Oligomers, Submicron, and Micron Size Aggregates of Monoclonal Antibodies Upon Subcutaneous Injection in Mice. Journal of Pharmaceutical Sciences, 2016, 105, 1693-1704.	3.3	19
13	Targeted nanoparticles for the non-invasive detection of traumatic brain injury by optical imaging and fluorine magnetic resonance imaging. Nano Research, 2016, 9, 1276-1289.	10.4	26
14	In Vivo Non-Invasive Tracking of Macrophage Recruitment to Experimental Stroke. PLoS ONE, 2016, 11, e0156626.	2.5	7
15	Alternative delivery of a thermostable inactivated polio vaccine. Vaccine, 2015, 33, 2030-2037.	3.8	21
16	CD40-targeted dendritic cell delivery of PLGA-nanoparticle vaccines induce potent anti-tumor responses. Biomaterials, 2015, 40, 88-97.	11.4	235
17	In Vivo Fluorescence Imaging of IgG1 Aggregates After Subcutaneous and Intravenous Injection in Mice. Pharmaceutical Research, 2014, 31, 216-227.	3.5	32
18	Ultrasound-mediated gene delivery of naked plasmid DNA in skeletal muscles: A case for bolus injections. Journal of Controlled Release, 2014, 195, 130-137.	9.9	16

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19	A multi-modality platform to image stem cell graft survival in the naÃ¯ve and stroke-damaged mouse brain. Biomaterials, 2014, 35, 2218-2226.	11.4	47
20	Evaluating reporter genes of different luciferases for optimized in vivo bioluminescence imaging of transplanted neural stem cells in the brain. Contrast Media and Molecular Imaging, 2013, 8, 505-513.	0.8	60
21	Sensitive Dual Color In Vivo Bioluminescence Imaging Using a New Red Codon Optimized Firefly Luciferase and a Green Click Beetle Luciferase. PLoS ONE, 2011, 6, e19277.	2.5	88
22	Role of trimethylated chitosan (TMC) in nasal residence time, local distribution and toxicity of an intranasal influenza vaccine. Journal of Controlled Release, 2010, 144, 17-24.	9.9	61
23	Nasal vaccination with N-trimethyl chitosan and PLGA based nanoparticles: Nanoparticle characteristics determine quality and strength of the antibody response in mice against the encapsulated antigen. Vaccine, 2010, 28, 6282-6291.	3.8	176
24	Antigenâ^'Adjuvant Nanoconjugates for Nasal Vaccination: An Improvement over the Use of Nanoparticles?. Molecular Pharmaceutics, 2010, 7, 2207-2215.	4.6	54
25	Bone Morphogenetic Protein 7 Inhibits Tumor Growth of Human Uveal Melanoma In Vivo. , 2007, 48, 4882.		24
26	Bone resorption and renal calcium reabsorption in renal cell carcinoma-bearing mice: the effects of bisphosphonate. BJU International, 2007, 99, 1530-1533.	2.5	1
27	Independent pathways in the modulation of osteoclastic resorption by intermediates of the mevalonate biosynthetic pathway: The role of the retinoic acid receptor. Bone, 2006, 38, 167-171.	2.9	16
28	Bioluminescent imaging: Emerging technology for non-invasive imaging of bone tissue engineering. Biomaterials, 2006, 27, 1851-1858.	11.4	43
29	Human CD46-transgenic mice in studies involving replication-incompetent adenoviral type 35 vectors. Journal of General Virology, 2006, 87, 255-265.	2.9	29
30	Endostatin's heparan sulfate-binding site is essential for inhibition of angiogenesis and enhances in situ binding to capillary-like structures in bone explants. Matrix Biology, 2005, 23, 557-561.	3.6	13
31	Identification of differentially expressed genes in a renal cell carcinoma tumor model after endostatin-treatment. Laboratory Investigation, 2004, 84, 1472-1483.	3.7	7
32	In vivo imaging of transcriptionally active estrogen receptors. Nature Medicine, 2003, 9, 82-86.	30.7	273
33	In Vitro and in Vivo Endochondral Bone Formation Models Allow Identification of Anti-Angiogenic Compounds. American Journal of Pathology, 2003, 163, 157-163.	3.8	8
34	Urokinase-Receptor/Integrin Complexes Are Functionally Involved in Adhesion and Progression of Human Breast Cancer in Vivo. American Journal of Pathology, 2001, 159, 971-982.	3.8	97
35	Monitoring Metastatic Behavior of Human Tumor Cells in Mice with Speciesâ€Specific Polymerase Chain Reaction: Elevated Expression of Angiogenesis and Bone Resorption Stimulators by Breast Cancer in Bone Metastases. Journal of Bone and Mineral Research, 2001, 16, 1077-1091.	2.8	117
36	Effect of Angiogenic and Antiangiogenic Compounds on the Outgrowth of Capillary Structures from Fetal Mouse Bone Explants. Laboratory Investigation, 2001, 81, 5-15.	3.7	54

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37	The Monoclonal Antibodies 18d7/91f2 Recognize a Receptor Regulatory Protein on Mouse Bone Marrow Stromal Cells. Journal of Bone and Mineral Research, 2000, 15, 1286-1300.	2.8	1
38	The Role of Geranylgeranylation in Bone Resorption and Its Suppression by Bisphosphonates in Fetal Bone Explants In Vitro: A Clue to the Mechanism of Action of Nitrogen-Containing Bisphosphonates. Journal of Bone and Mineral Research, 1999, 14, 722-729.	2.8	216
39	Nitrogen-Containing Bisphosphonates Inhibit Isopentenyl Pyrophosphate Isomerase/Farnesyl Pyrophosphate Synthase Activity with Relative Potencies Corresponding to Their Antiresorptive Potenciesin Vitroandin Vivo. Biochemical and Biophysical Research Communications, 1999, 255, 491-494.	2.1	191
40	Farnesyl Pyrophosphate Synthase Is the Molecular Target of Nitrogen-Containing Bisphosphonates. Biochemical and Biophysical Research Communications, 1999, 264, 108-111.	2.1	464
41	Dissociation of binding and antiresorptive properties of hydroxybisphosphonates by substitution of the hydroxyl with an amino group. Journal of Bone and Mineral Research, 1996, 11, 1492-1497.	2.8	84
42	Investigative Urology: Hypercalcemia and Cosecretion of Interleukin-6 and Parathyroid Hormone Related Peptide by a Human Renal Cell Carcinoma Implanted Into Nude Mice. Journal of Urology, 1995, 153, 854-857.	0.4	35
43	In vitro and Ex vivo evidence that estrogens suppress increased bone resorption induced by ovariectomy or PTH stimulation through an effect on osteoclastogenesis. Journal of Bone and Mineral Research, 1995, 10, 1523-1530.	2.8	45
44	Investigative Urology. Journal of Urology, 1995, , 854-857.	0.4	1
45	Ceramic hydroxyapatite implants for the release of bisphosphonate. Bone and Mineral, 1994, 25, 123-134.	1.9	49
46	Integrins and osteoclastic resorption in three bone organ cultures: Differential sensitivity to synthetic arg-gly-asp peptides during osteoclast formation. Journal of Bone and Mineral Research, 1994, 9, 1021-1028.	2.8	40
47	Structural requirements for bisphosphonate actions in vitro. Journal of Bone and Mineral Research, 1994, 9, 1875-1882.	2.8	117
48	Modulation of IL-6 Production of IL-1 Activity by Keratinocyte-Fibroblast Interaction. Journal of Investigative Dermatology, 1993, 101, 316-324.	0.7	90
49	Leukemia inhibitory factor inhibits osteoclastic resorption, growth, mineralization, and alkaline phosphatase activity in fetal mouse metacarpal bones in culture. Journal of Bone and Mineral Research, 1993, 8, 191-198.	2.8	51
50	Disodium 1-hydroxy-3-(1-pyrrolidinyl)-propylidene-1,1-bisphosphonate (EB-1053) is a potent inhibitor of bone resorption in vitro and in vivo. Journal of Bone and Mineral Research, 1992, 7, 981-986.	2.8	26
51	Two Distinct Effects of Recombinant Human Tumor Necrosis Factor-a on Osteoclast Development and Subsequent Resorption of Mineralized Matrix*. Endocrinology, 1991, 129, 1596-1604.	2.8	95